

(11) **EP 0 764 722 A2**(12) **EUROPEAN PATENT APPLICATION**(43) Date of publication:  
26.03.1997 Bulletin 1997/13(51) Int Cl. 5: **C12N 15/16, C12N 15/70,**  
**C12N 1/21, C07K 14/575,**  
**A61K 38/22**  
**// (C12N1/21, C12R1:19)**(21) Application number: **96306721.0**(22) Date of filing: **16.09.1996**(84) Designated Contracting States:  
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL**  
**PT SE**

- Helung, Hansen Maxwell  
 Carmel, Indiana 46032 (US)
- Schoner, Brigitte Elisabeth  
 Monrovia, Indiana 46167 (US)
- Zhang, Xing-Yue  
 Indianapolis, Indiana 46227 (US)

(30) Priority: **19.09.1995 US 3935**  
**19.09.1995 US 3936**(71) Applicant: **ELI LILLY AND COMPANY**  
**Indianapolis, Indiana 46285 (US)**(74) Representative: **Tapping, Kenneth George et al**  
**Lilly Industries Limited**  
**European Patent Operations**  
**Erl Wood Manor**  
**Windlesham Surrey GU20 6PH (GB)**(72) Inventors:  

- Basinski, Margret Barbara  
 Indianapolis, Indiana 46219 (US)

(54) **DNA encoding primate leptins as medicinal proteins**(57) The invention includes nucleic acid sequences  
encoding medically useful proteins, pharmaceutical for-

mulations, and methods for expressing the proteins. In particular, higher primate leptin protein cDNA sequences are disclosed as are the expressed proteins.

**BEST AVAILABLE COPY****EP 0 764 722 A2**